

# WMATA Escalator Canopy Program Phase IV

Judiciary Square North Entrance

U.S. Commission of Fine Arts  
March 21, 2019



# Canopy Program Objectives



- Comply with current building codes.  
*ASME 17.1: “..a cover shall be provided directly over the escalator to protect from precipitation.”*
- Improve escalators reliability.
- Protect patrons from rain, ice and snow.
- Provide design excellence that reflects dignity and elegance appropriate for an entrance to the Metro system of the Nation’s Capital.

# Canopy Prototype Design



- Iconic Image: Vaulted torus form reflects original WMATA underground station ceiling vaults.
- Uniform shedding of rainwater away from wellway opening.
- Minimal Footprint: Bear on existing wellway parapet wall structure.
- Modular Design: Form adapted to cover wellways of varying sizes, ranging in width from 12 ft. to 37 ft. and length 29 ft. to 89 ft.
- Constructability:
  - Bolted Joints, Quick Assembly.
  - Limited Site Welding.
  - No interruption of WMATA service.



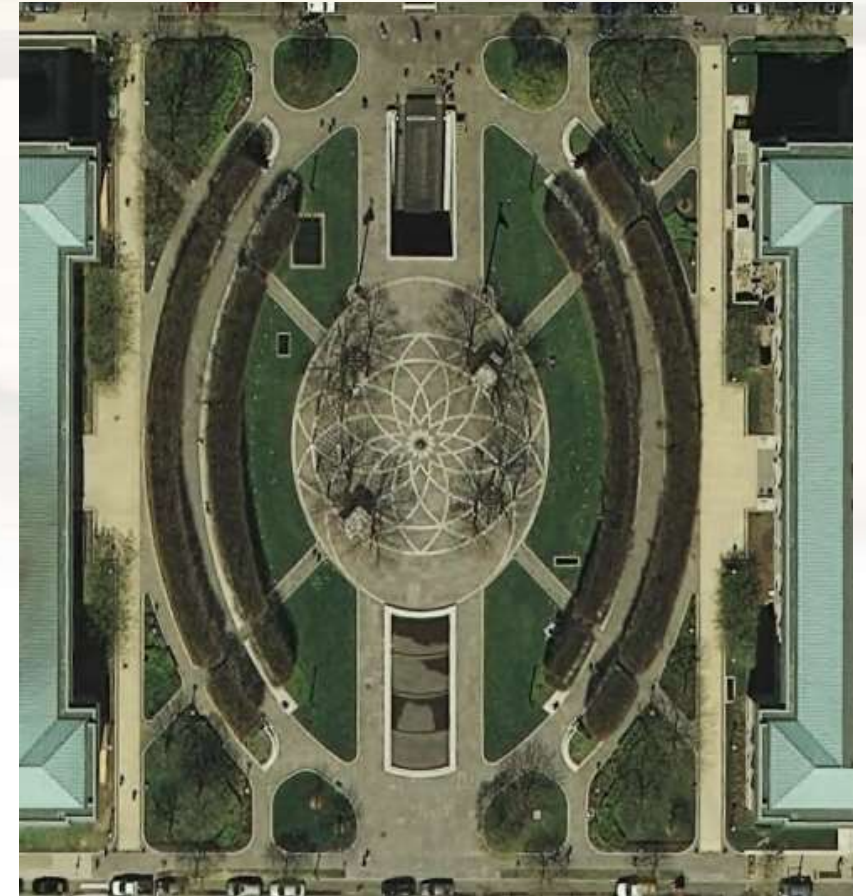
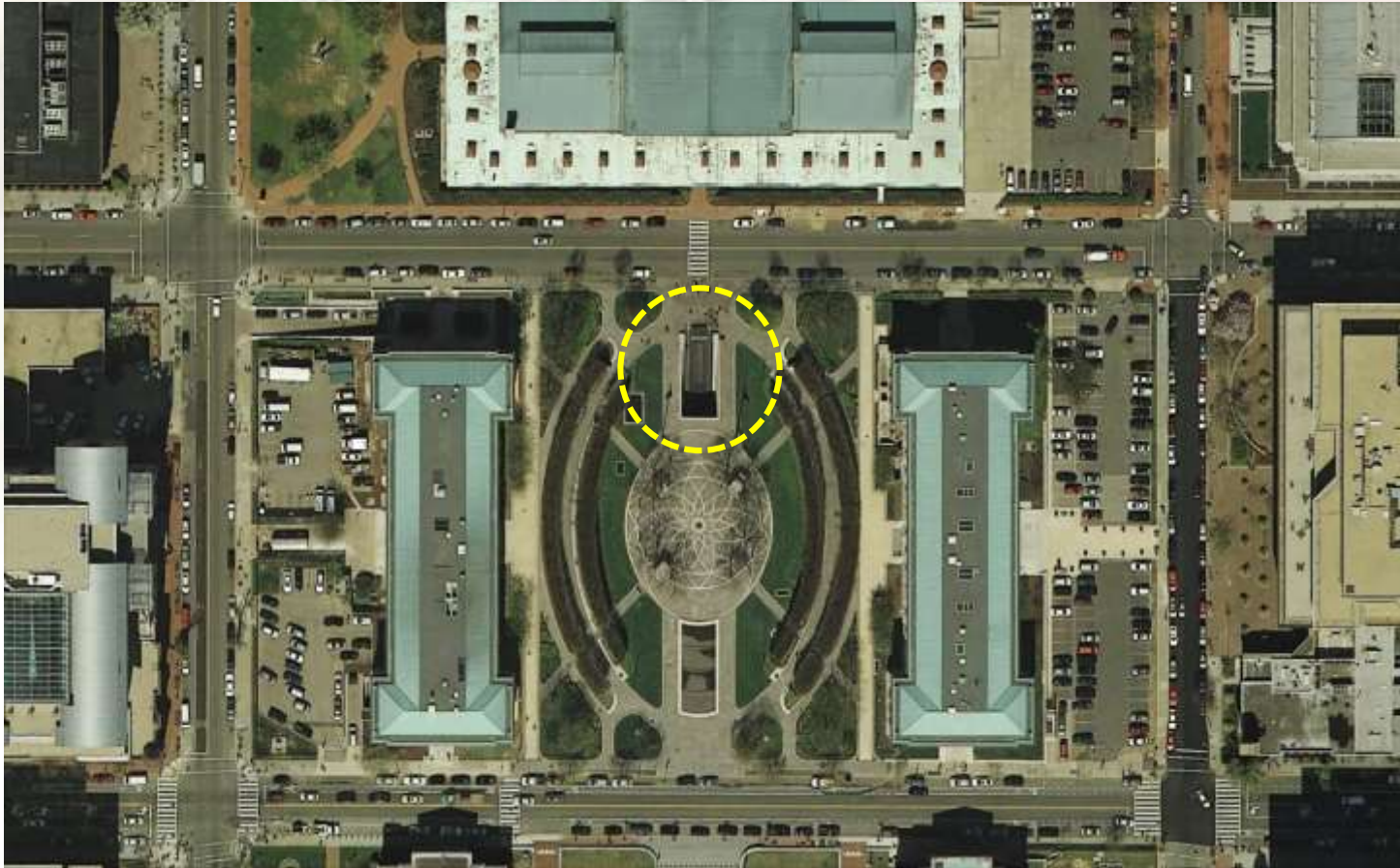
## Canopies on National Park Service Sites



1. Archives-Navy Memorial-Penn Quarter
2. Arlington Cemetery (North and South)
3. Judiciary Square (North)
4. Smithsonian (North)
5. U Street/African-Amr. Civil War Memorial (East)

# Judiciary Square North

## Site Plan and Context

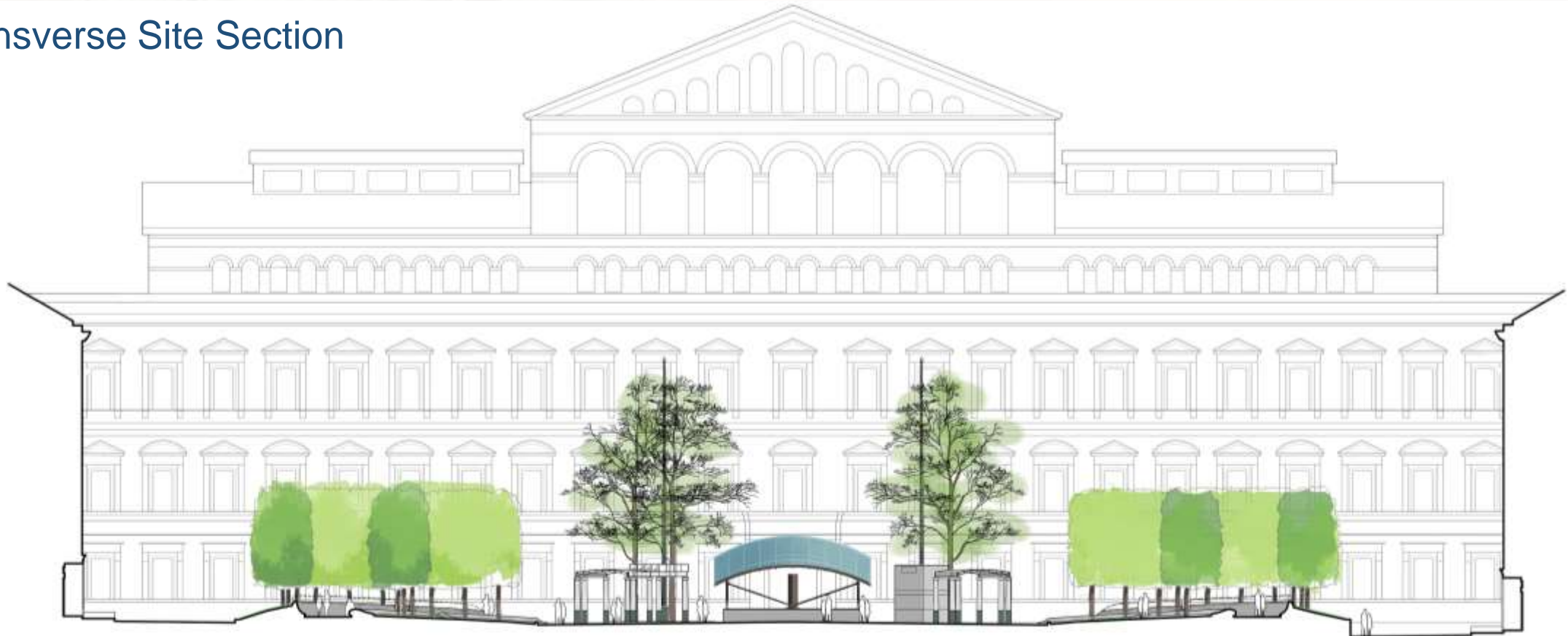




# Judiciary Square North

## Option 1: Prototypical Canopy

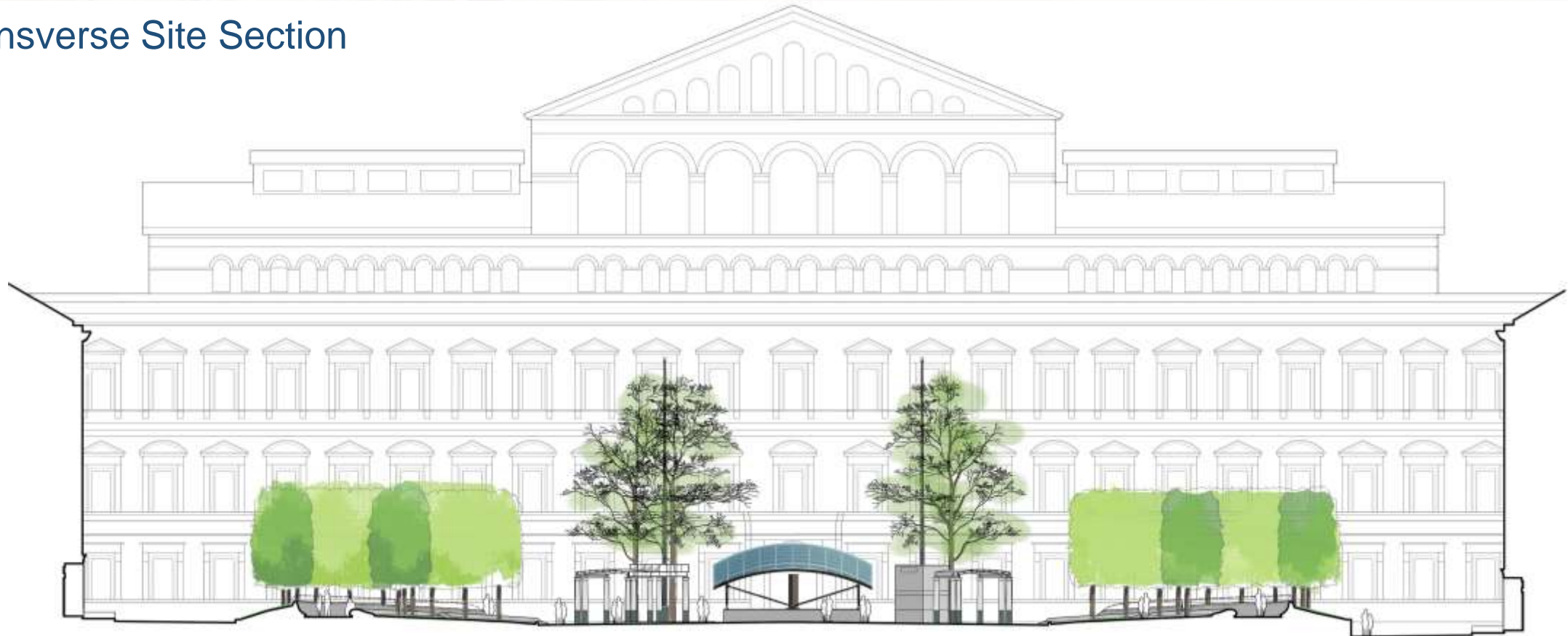
Transverse Site Section



# Judiciary Square North

## Option 2: Partially Modified Prototypical Canopy

### Transverse Site Section



# Judiciary Square North

## Option 3: Fully Modified Prototypical Canopy

### Transverse Site Section





# Judiciary Square North

## Option 1: Prototypical Canopy

Longitudinal Site Section



# Judiciary Square North

## Option 2: Partially Modified Prototypical Canopy

### Longitudinal Site Section

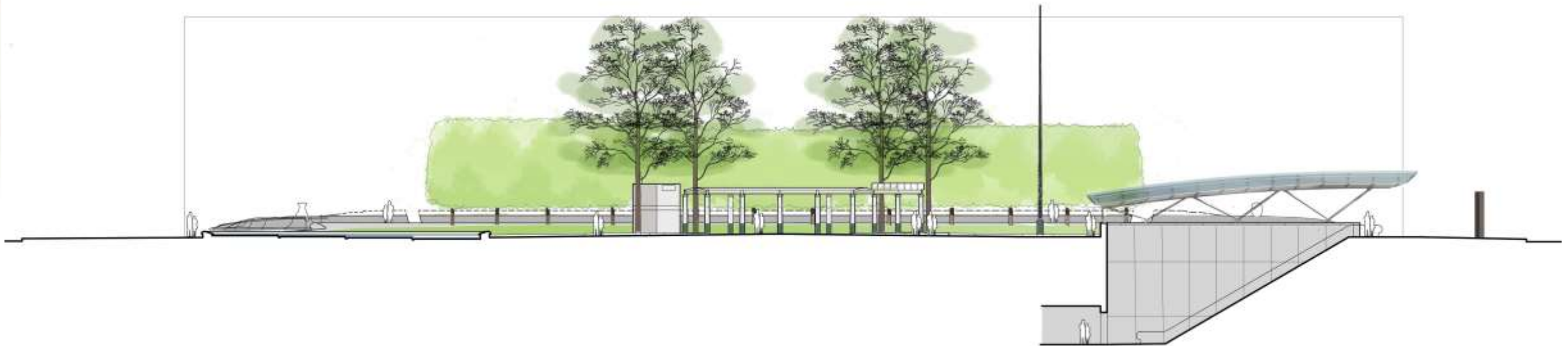




# Judiciary Square North

## Option 3: Fully Modified Prototypical Canopy

### Longitudinal Site Section



# Judiciary Square North

## Option 1: Prototypical Canopy



View North



View South



# Judiciary Square North

## Option 2: Partially Modified Prototypical Canopy



View North



View South

# Judiciary Square North

## Option 3: Fully Modified Prototypical Canopy



View North



View South



# Judiciary Square North

## Option 1: Prototypical Canopy



View North



View Northwest



# Judiciary Square North

## Option 2: Partially Modified Prototypical Canopy



View North



View Northwest



# Judiciary Square North

## Option 3: Fully Modified Prototypical Canopy



View North



View Northwest



## Judiciary Square North

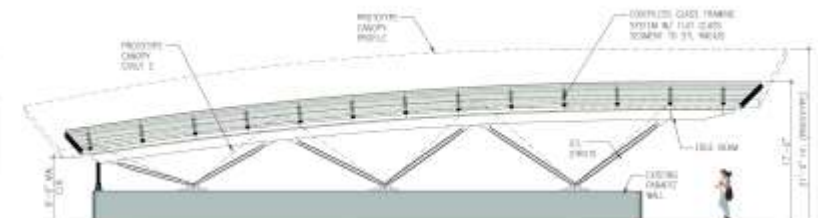
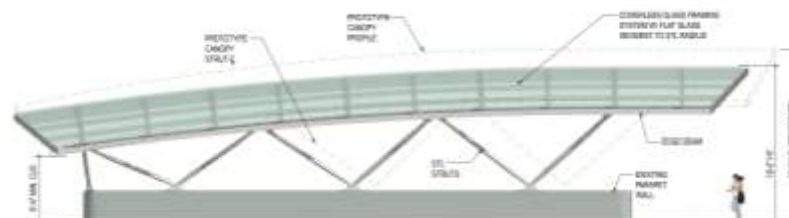
Option 1.



Option 2.



Option 3.





# Judiciary Square North

Option 1.

Option 2.

Option 3.





# Judiciary Square North

## Canopy Design Options Comparison



Option 1: Prototypical Canopy

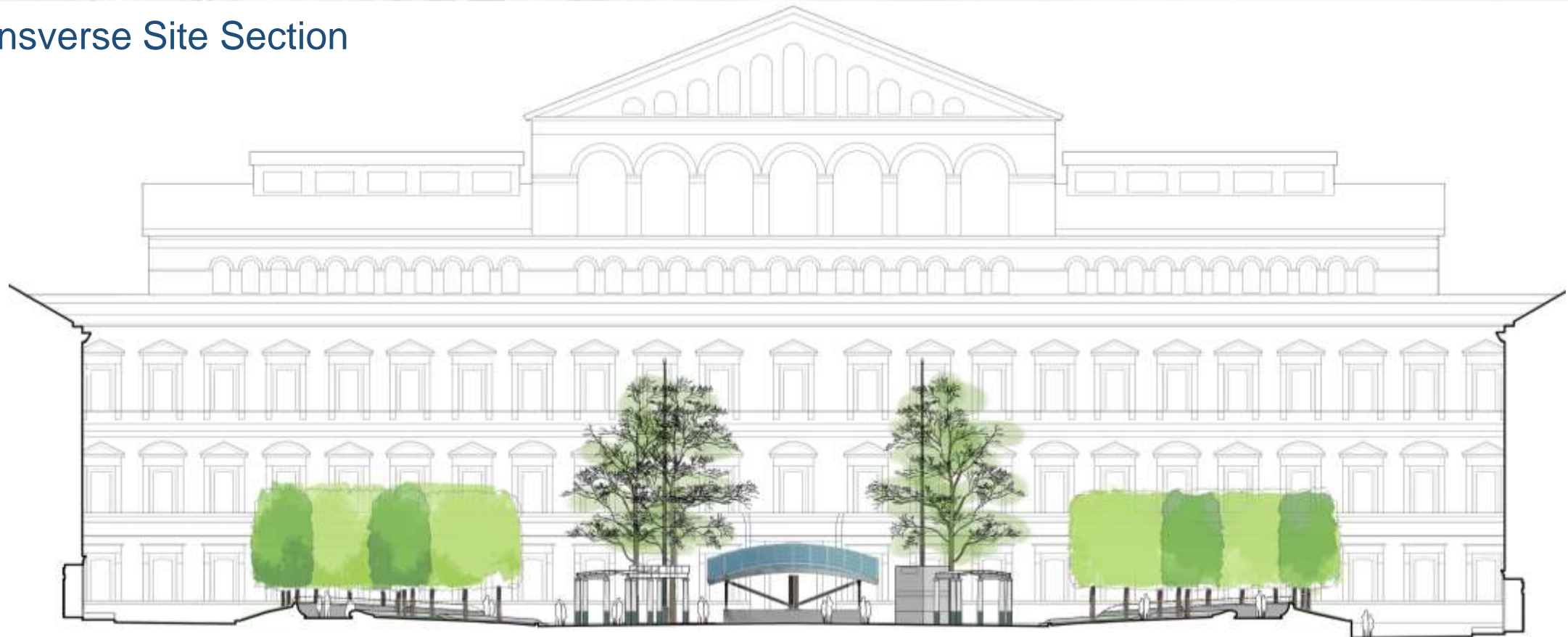


Option 3: Fully Modified Prototypical Canopy

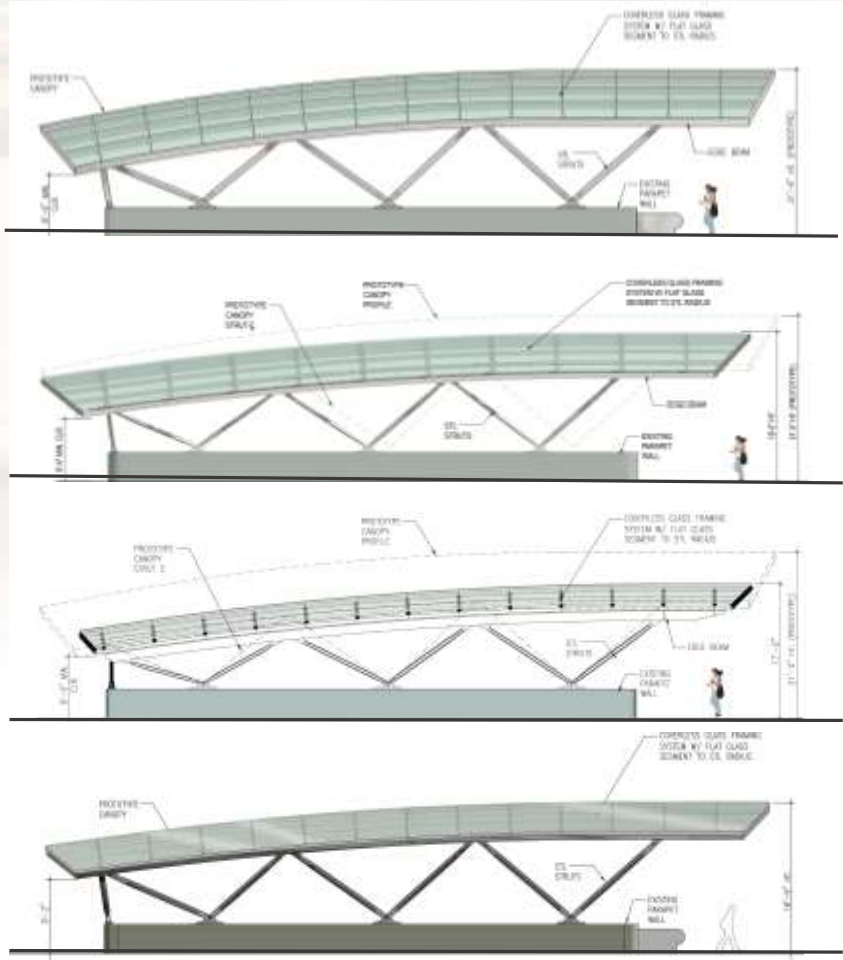
# Judiciary Square North

## Option 3A: Fully Modified Prototypical Canopy with overhangs

### Transverse Site Section



# Canopy Options Comparison

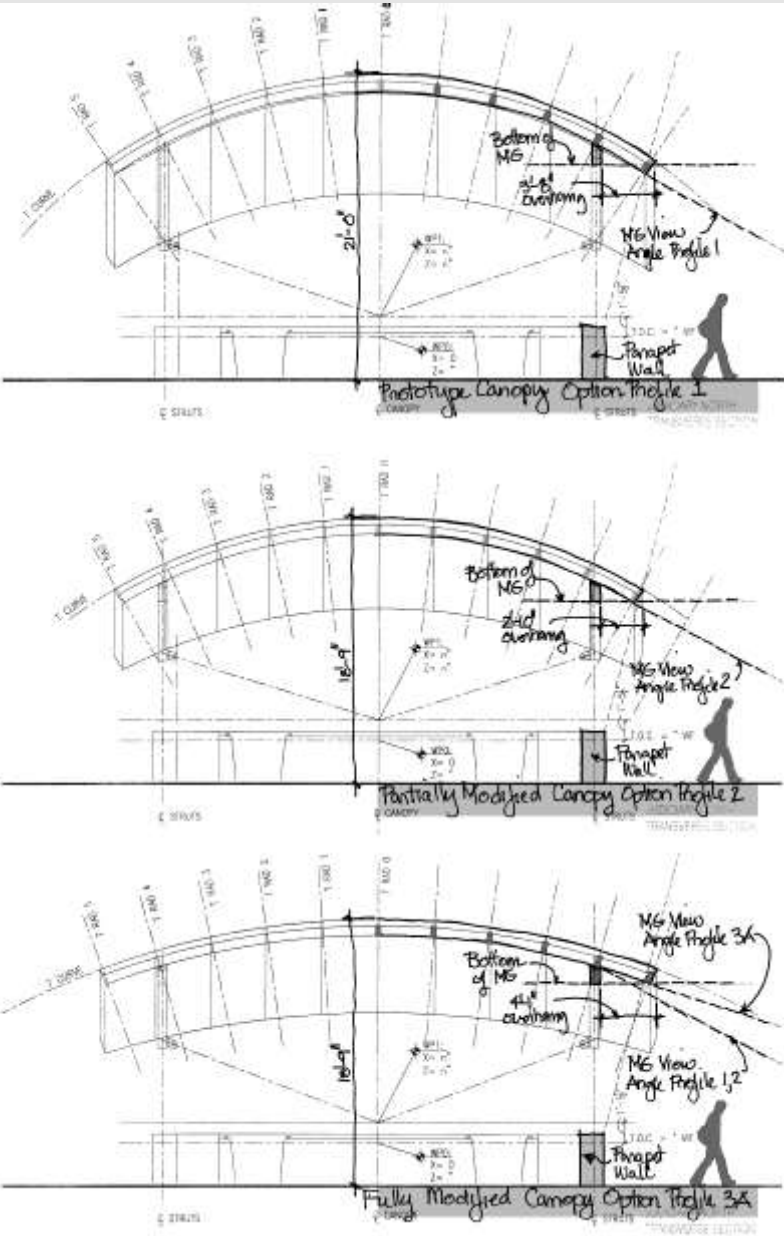


Option 1.

Option 2.

Option 3.

Option 3A.







Thank you